

IN THE CLAIMS

Please amend the claims as follows.

For the Examiner's convenience, a list of all claims is included below.

1. (Currently Amended) A method comprising:
- accessing a reference array, the reference array referencing at least one data object, each
of the at least one data object having a contents stored in a corresponding memory location;
- determining a new memory location for the contents of each of the at least one data
object; and
- copying the contents of the at least one data object directly to the new memory location
thus creating a new data object for each of the at least one data object, each new data object
having a new data object contents, such that upon copying the contents of the at least one data
object to the new memory location, the new data object contents of each new data object data
does not also get stored to a cache memory.
2. (Original) The method of claim 1 wherein the contents of consecutively referenced data
objects are copied to consecutive memory locations.
3. (Currently Amended) The method of claim 2 wherein copying further includes copying
the contents of the at least one data object ~~around the cache~~ using a write combine operation.

4. (Original) The method of claim 3 implemented upon a computing system having a central processing unit wherein an amount of data copied depends upon central processing unit parameters.

5. (Original) The method of claim 4 wherein the computing system operates in a dynamic run-time environment.

6. (Original) The method of claim 5 wherein the run-time environment is selected from the group consisting of JAVA and CLI.

7. (Original) The method of claim 6 implemented as the copy phase of a moving garbage collection algorithm.

8. (Currently Amended) A machine-readable medium that provides executable instructions, which when executed by a processor, cause the processor to perform a method, the method comprising:

accessing a reference array, the reference array referencing at least one data object, each of the at least one data object having a contents stored in a corresponding memory location;

determining a new memory location for the contents of each of the at least one data object; and

copying the contents of the at least one data object directly to the new memory location thus creating a new data object for each of the at least one data object, each new data object having a new data object contents, such that upon copying the contents of the at least one data

object to the new memory location, the new data object contents of each new data object data
does not ~~also~~ get stored to a cache memory.

9. (Original) The machine-readable medium of claim 8 wherein the contents of
consecutively referenced data objects are copied to consecutive memory locations.

10. (Currently Amended) The machine-readable medium of claim 9 wherein copying further
includes copying the contents of the at least one data object ~~around the cache by exploiting the~~
~~write combine feature of the non-temporal streaming store operation~~ using a write combine
operation.

11. (Original) The machine-readable medium of claim 10 implemented upon a computing
system having a central processing unit wherein an amount of data copied depends upon central
processing unit parameters.

12. (Original) The machine-readable medium of claim 11 wherein the computing system
operates in a dynamic run-time environment.

13. (Original) The machine-readable medium of claim 12 wherein the run-time environment
is selected from the group consisting of JAVA and CLI.

14. (Original) The machine-readable medium of claim 13 implemented as the copy phase of
a moving garbage collection algorithm.

15. (Currently Amended) An apparatus comprising:

a register to hold a reference array, the reference array referencing at least one data object, each of the at least one data object having a contents;

a memory region corresponding to each data object to hold the contents of each of the at least one data object; and

a central processing unit to determine a new memory location for the contents of each of the at least one data object, ~~the contents of the at least one data object copied to the new memory location such that upon copying the contents to the new memory location, the data is not stored to a cache memory.~~ and copy the contents of the at least one data object directly to the new memory location thus creating a new data object for each of the at least one data object, each new data object having a new data object contents, such that upon copying the contents of the at least one data object to the new memory location, the new data object contents of each new data object does not get stored to a cache memory.

16. (Original) The apparatus of claim 15 wherein the contents of consecutively referenced data objects are copied around the cache to consecutive memory locations.

17. (Currently Amended) The apparatus of claim 16 wherein copying further includes copying the contents of the at least one data object ~~around the cache by exploiting the write combine feature of the non-temporal streaming store operation~~ using a write combine operation.

18. (Original) The apparatus of claim 17 implemented upon a computing system having a central processing unit wherein an amount of data copied depends upon central processing unit parameters.

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19. (Original) The apparatus of claim 18 wherein the computing system operates in a dynamic run-time environment.

20. (Original) The apparatus of claim 19 wherein the run-time environment is selected from the group consisting of JAVA and CLI.

21. (Original) The apparatus of claim 20 implemented as the copy phase of a moving garbage collection algorithm.
